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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-11-13-18** **Date: 24-08-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements of Drains at Hegadenagara Thanisandra and Saraipalya Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri. N. Manjunath No.01, Thirumenahalli Jakkur (P), Yelahanka Hobli Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/81/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11).1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-08-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-11-13-18 **Date: 19-09-19**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts and Improvements of Drains at Hegadenagara Thanisandra and Saraipalya Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri. N. Manjunath No.01, Thirumenahalli Jakkur (P), Yelahanka Hobli Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/81/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-08-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 22-08-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	37.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-11-13-18** **Date: 24-08-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements of Drains at Hegadenagara Thanisandra and Saraipalya Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri. N. Manjunath No.01, Thirumenahalli Jakkur (P), Yelahanka Hobli Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/81/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-08-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-11-13-18** **Date: 24-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-11-13-18** **Date: 23-08-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements of Drains at Hegadenagara Thanisandra and Saraipalya Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri. N. Manjunath No.01, Thirumenahalli Jakkur (P), Yelahanka Hobli Bangalore-560064.
Customer Reference	:	BBMP/EE/BTP/WO/81/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-11-13-18** **Date: 23-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 23-08-19

Lab ID	:	**CP-2019-11-13-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements of Drains at Hegadenagara Thanisandra and Saraipalya Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri. N. Manjunath No.01, Thirumenahalli Jakkur (P), Yelahanka Hobli Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/81/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	21-08-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100
3	2.36 mm	54	83	8.3	91.7	60-95	75-100	85-100	95-100
4	1.18 mm	238	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	204	525	52.5	47.5	15-34	35-59	60-79	80-100
6	300 micron	203	728	72.8	27.2	5-20	8-30	12-40	15-50
7	150 micron	191	919	91.9	8.1	0-10	0-10	0-10	0-15
8	Pan	81	1000	100.0	0.0	—	—	—	—

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-11-13-18** **Date: 23-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-11-13-18** **Date: 27-08-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements of Drains at Hegadenagara Thanisandra and Saraipalya Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri. N. Manjunath No.01, Thirumenahalli Jakkur (P), Yelahanka Hobli Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/81/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-08-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	26-08-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	514	654	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	526	676	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	546	664	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/09/2019

Lab ID	:	CP-2019-11-13-18
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements of Drains at Hegadenagara Thanisandra and Saraipalya Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri. N. Manjunath No.01, Thirumenahalli Jakkur (P), Yelahanka Hobli Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/81/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	28/08/2019	04/09/2019	151.59 X 150.53 X 150.95	22819	8.112	429.1	18.8	18.6
2	Drain Bottom Slab Concrete	M20	28/08/2019	04/09/2019	150.94 X 150.87 X 151.48	22773	8.701	424.7	18.6	
3	Drain Bottom Slab Concrete	M20	28/08/2019	04/09/2019	149.55 X 149.83 X 149.71	22406	8.215	413.3	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-11-13-18** **Date: 25/09/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements of Drains at Hegadenagara Thanisandra and Saraipalya Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri. N. Manjunath No.01, Thirumenahalli Jakkur (P), Yelahanka Hobli Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/81/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	28/08/2019	25/09/2019	149.74 X 151.18 X 150.61	22638	8.633	523.1	23.1	22.9
2	Drain Bottom Slab Concrete	M20	28/08/2019	25/09/2019	149.79 X 149.04 X 151.55	22325	8.640	493.3	22.1	
3	Drain Bottom Slab Concrete	M20	28/08/2019	25/09/2019	150.01 X 151.15 X 151.45	22674	8.118	534.5	23.6	

Note:
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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-13-18** **Date: 04/09/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts and Improvements of Drains at Hegadenagara Thanisandra and Saraipalya Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri. N. Manjunath No.01, Thirumenahalli Jakkur (P), Yelahanka Hobli Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/81/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-08-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	28/08/2019	04/09/2019	150.23 X 149.13 X 149.48	22405	**8.112**	403.9	18.0	18.3
2	Drain Bottom Slab Concrete	M20	28/08/2019	04/09/2019	149.36 X 152.00 X 150.61	22702	**8.701**	429.1	18.9	
3	Drain Bottom Slab Concrete	M20	28/08/2019	04/09/2019	149.08 X 149.53 X 150.36	22292	**8.215**	403.3	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-13-18 **Date: 25/09/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts and Improvements of Drains at Hegadenagara Thanisandra and Saraipalya Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri. N. Manjunath No.01, Thirumenahalli Jakkur (P), Yelahanka Hobli Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/81/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-08-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	28/08/2019	25/09/2019	150.15 X 149.87 X 149.73	22503	8.633	526.5	23.4	23.1
2	Drain Bottom Slab Concrete	M20	28/08/2019	25/09/2019	150.05 X 151.88 X 151.72	22791	8.640	503.6	22.1	
3	Drain Bottom Slab Concrete	M20	28/08/2019	25/09/2019	150.15 X 151.82 X 150 86	22796	8.118	544.2	23.9	

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig. Date BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-13-18 **Date: 03/10/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts and Improvements of Drains at Hegadenagara Thanisandra and Saraipalya Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri. N. Manjunath No.01, Thirumenahalli Jakkur (P), Yelahanka Hobli Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/81/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/09/2019	03/10/2019	150.35 X 150.49 X 149.25	22626	8.633	524.7	23.2	22.9
2	Drain Side Wall Concrete	M20	04/09/2019	03/10/2019	151.88 X 151.96 X 149.21	23081	8.640	517.8	22.4	
3	Drain Side Wall Concrete	M20	04/09/2019	03/10/2019	149.45 X 151.93 X 150.53	22706	8.118	527.1	23.2	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-13-18

Date: 11/09/2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts and Improvements of Drains at Hegadenagara Thanisandra and Saraipalya Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri. N. Manjunath No.01, Thirumenahalli Jakkur (P), Yelahanka Hobli Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/81/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C0.5

Date of test : 11/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/09/2019	11/09/2019	151.09 X 151.37 X 149.93	22870	**8.112**	432.2	18.9	18.7
2	Drain Side Wall Concrete	M20	04/09/2019	11/09/2019	149.78 X 151.73 X 152.00	22726	**8.701**	423.5	18.6	
3	Drain Side Wall Concrete	M20	04/09/2019	11/09/2019	151.38 X 150.47 X 149.16	22778	**8.215**	420.3	18.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-13-18** **Date: 03/10/2019**

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Agency : Sri. N. Manjunath No.01, Thirumenahalli Jakkur (P), Yelahanka Hobli Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/81/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/09/2019	03/10/2019	150.65 X 151.06 X 151.01	22756	**8.633**	543.4	23.9	23.2
2	Drain Side Wall Concrete	M20	04/09/2019	03/10/2019	150.29 X 149.16 X 150.43	22417	**8.640**	504.7	22.5	
3	Drain Side Wall Concrete	M20	04/09/2019	03/10/2019	149.32 X 151.06 X 151.46	22555	**8.118**	522.3	23.2	

Note:
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